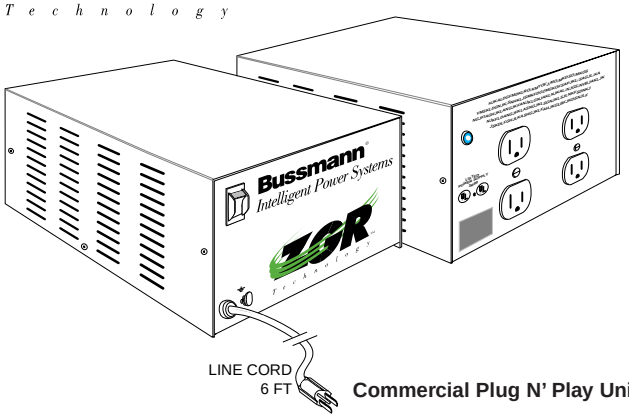
Intelligent Power System IPS-R
with *ZGR™ Technology*
Plug N' Play Power and Ground Conditioner



Commercial Plug N' Play Unit

CATALOG SYMBOL: IPS-R
PLUG N' PLAY (Portable)
POWER AND GROUND CONDITIONER
CURRENT RANGE: 3 AMP - 20 AMP
ELECTRICAL RATING: SINGLE PHASE
120 VOLT INPUT - 120 VOLT OUTPUT
U.L. LISTED - UL1012, CSA - C22.2

Tested under power to ANSI/IEEE C62.41:

Category A & B;
Category A: 6000V/200A, 0.5µ sec. risetime, 100KHz decay
Category B: 6000V/500A, 0.5µ sec. risetime, 100KHz decay

Noise Rejection-Isolation:

With unit under power, and the Category A pulse applied in either normal or common-mode at the input, the noise output voltage will be less than 10V normal mode, and less than 0.5V common mode in all four quadrants.

Designed for Reliable Operation of:

- Computer Systems
- Networked Computer Equipment
- Telecommunications Equipment
- Specialty Microprocessor Systems
- Instrumentation Equipment
- Cash Registers/Scanners
- Credit Authorization Machines
- Programmable Logic Controllers
- Medical Diagnostic Equipment
- Office Equipment (Printers, Copiers, etc.)

Features:

- Protects sensitive electronic equipment from Normal-mode and Common-mode transients and noise.
- Controls high frequency circulating ground currents caused when interconnecting computer systems.
- Separately derived system offering "Zero" volts between the Neutral and Ground conductors.
- Provides for near "Zero" noise at the electronic equipment's Signal Reference.
- Attenuates noise from 1 KHz to 40MHz in the ground line while freely passing 60Hz virtually.
- Low Impedance Isolation Transformer designed for use with todays modern Switch-mode Power Supplies.
- Back Panel LED indicates "Power On" at the Output Receptacles.
- Five-Year Warranty.

Product Specification

Part Number	VA Rating	Load Current	Receptacle Output	H x W x D	Input Voltage	Output Voltage	Shipping Weight	Efficiency (%)	Frequency (Hz)	THD (%)
IPS0360R	360	3.0	(4) 5-15R	5-1/4 x 6 x 9	120	120	11	93	60	<1
IPS0500R	500	4.2	(4) 5-15R	5-1/4 x 6 x 9	120	120	13	93	60	<1
IPS0600R	600	5.0	(4) 5-15R	5-1/4 x 6 x 9	120	120	18	94	60	<1
IPS0750R	750	6.3	(4) 5-15R	6 x 7 x 11	120	120	22	95	60	<1
IPS01000R	1000	8.3	(4) 5-15R	6 x 7 x 11	120	120	26	95	60	<1
IPS01250R	1250	10.0	(6) 5-15R	7-1/4 x 8-1/4 x 13-1/2	120	120	38	95	60	<1
IPS01500R	1500	12.0	(6) 5-15R	7-1/4 x 8-1/4 x 13-1/2	120	120	43	96	60	<1
IPS02000R	2000	16.0	(6) 5-20R	7-1/4 x 8-1/4 x 13-1/2	120	120	50	96	60	<1
IPS02500R	2500	20.0	(6) 5-20R	7-1/4 x 8-1/4 x 13-1/2	120	120	57	96	60	<1

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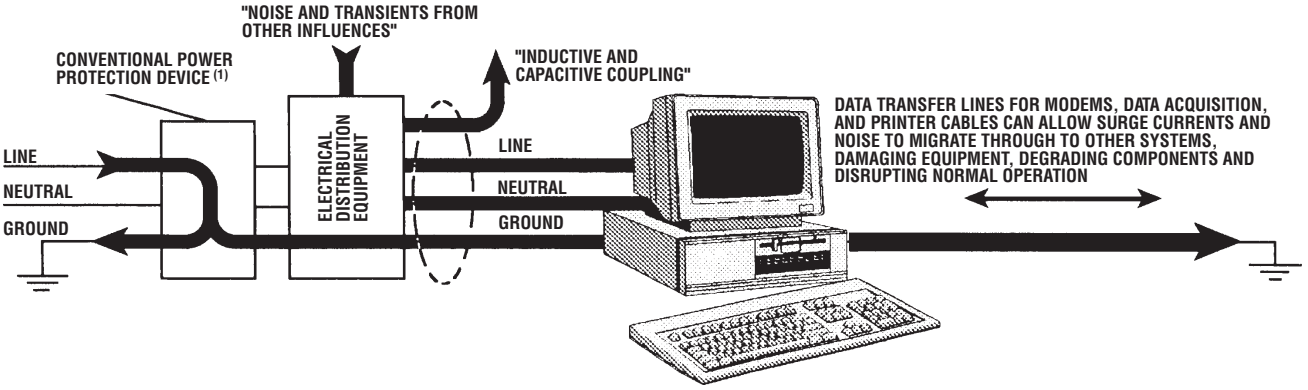
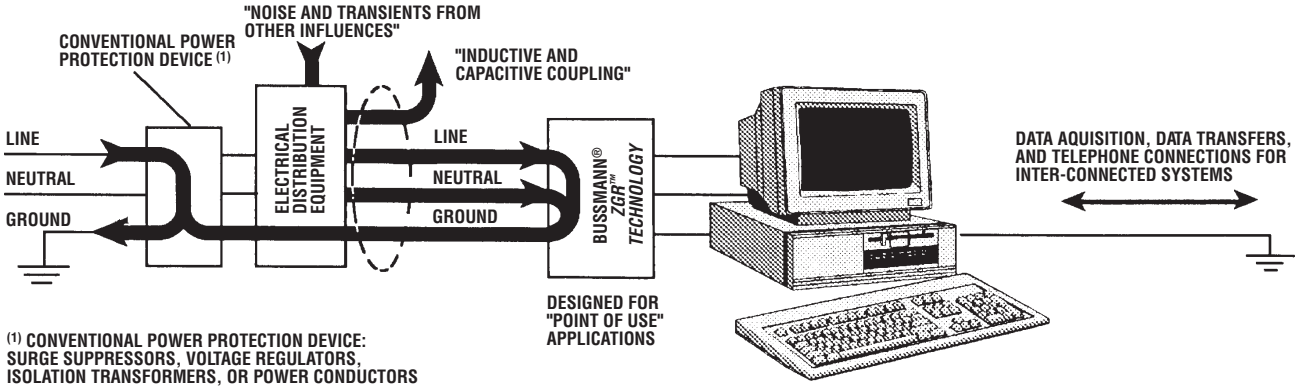
NORMAL PROTECTION

BUSSMANN'S PROTECTION *"ZGR™ TECHNOLOGY"* OFFERS PROTECTION ON THE LINE, NEUTRAL AND GROUNDING CONDUCTORS


"NOISE AND TRANSIENTS FROM OTHER INFLUENCES"
CONVENTIONAL POWER PROTECTION DEVICE (1)
"INDUCTIVE AND CAPACITIVE COUPLING"
LINE
NEUTRAL
GROUND
ELECTRICAL DISTRIBUTION EQUIPMENT
LINE
NEUTRAL
GROUND
DATA TRANSFER LINES FOR MODEMS, DATA ACQUISITION, AND PRINTER CABLES CAN ALLOW SURGE CURRENTS AND NOISE TO MIGRATE THROUGH TO OTHER SYSTEMS, DAMAGING EQUIPMENT, DEGRADING COMPONENTS AND DISRUPTING NORMAL OPERATION

BUSSMANN'S PROTECTION *"ZGR™ TECHNOLOGY"* PREVENTS MANY OF THE CAUSES OF DAMAGE, DEGRADATION, AND DISRUPTION WHICH CAN EFFECT COMPUTER SYSTEMS AND PROVIDES FOR A CLEAN NEAR "NOISE FREE" DATA LINES AND SIGNAL REFERENCE



(1) CONVENTIONAL POWER PROTECTION DEVICE: SURGE SUPPRESSORS, VOLTAGE REGULATORS, ISOLATION TRANSFORMERS, OR POWER CONDUCTORS

SURGE CURRENTS, TRANSIENTS AND HIGH FREQUENCY NOISE

Bussmann's Protection Difference - "*ZGR™ Technology*"

Electronic systems are increasingly vulnerable to power line disturbances. Today's electronic componenets have higher circuit densities, use increasing clock speeds and operate at lower voltages. Protecting these systems typically involves discharging transients and filtering moise from the line and neutral onto the grounding conductor. Many systems, however, use the ground as a "Signal Reference" for DC logic voltages and communications signals. This has prompted the need for protection from disturbances entering the grounding system. Bussmann's advanced ***ZGR Technology*** is designed to prevent a majority of transients, surge currents and noise from passing through the ground line to the "Signal Reference," while also providing quality protection from disturbances found on the line and neutral. ***ZGR Technology*** provides improved protection from the potential damage, degradation and disruption caused by disturbances on the Line, Neutral and Ground conductors.

Applications:

- Computer/Switch-mode Power Supplies
- Office Equipment
- Programmable Logic Controllers
- Uninterruptible Power Supplies (UPS)
- Laboratory Testing Equipment
- Telecommunications Equipment, etc.

Where Used:

- Office/Commercial Buildings
- Banking/Financial Institutions
- Government/Municipal Sites
- Industrial Facilities
- Insurance Companies
- Point of Sales/Retail
- Laboratories

This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

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